Amendments to the Specification:

Please amend the specification as follows:

Second Amendment of the paragraph on p.5, ln.32-p.6, ln.16:

In another aspect, the present invention provides for core/shell nanoparticle oligonucleotide conjugates, comprising a nanoparticle core, a gold shell surrounding the nanoparticle, and an oligonucleotide attached to the gold surface of the core/shell nanoparticle. The size of the nanoparticles is preferably from about 5 nm to about 150 nm (mean diameter), more preferably from about 5 to about 50 nm, most preferably from about 10 to about 30 nm. Any suitable method for attaching oligonucleotides onto a gold surface may be used. A particularly preferred method for attaching oligonucleotides onto a gold surface is based on an aging process described in U.S. application nos. 09/344,667, filed June 25, 1999; 09/603,830, filed June 26, 2000; 09/760,500, filed January 12, 2001; 09/820,279, filed March 28, 2001; 09/927,777, filed August 10, 2001; and in International application nos. WO 98/04740, filed July 21, 1997; WO 01/00876, filed June 26, 2000; WO 01/51665, filed January 12, 2001; WO 01/73123, filed March 28, 2001, the disclosures which are incorporated by reference in their entirety. The aging process provides nanoparticle-oligonucleotide conjugates with unexpected enhanced stability and selectivity. method comprises providing oligonucleotides preferably having covalently bound thereto a moiety comprising a functional group which can bind to the nanoparticles. The moieties and functional groups are those that allow for binding (i.e., by chemisorption or covalent bonding) of the oligonucleotides to nanoparticles. For instance, oligonucleotides having an alkanethiol, an alkanedisulfide or a cyclic disulfide covalently bound to their 5' or 3' ends can be used to bind the oligonucleotides to a variety of nanoparticles, including gold nanoparticles.